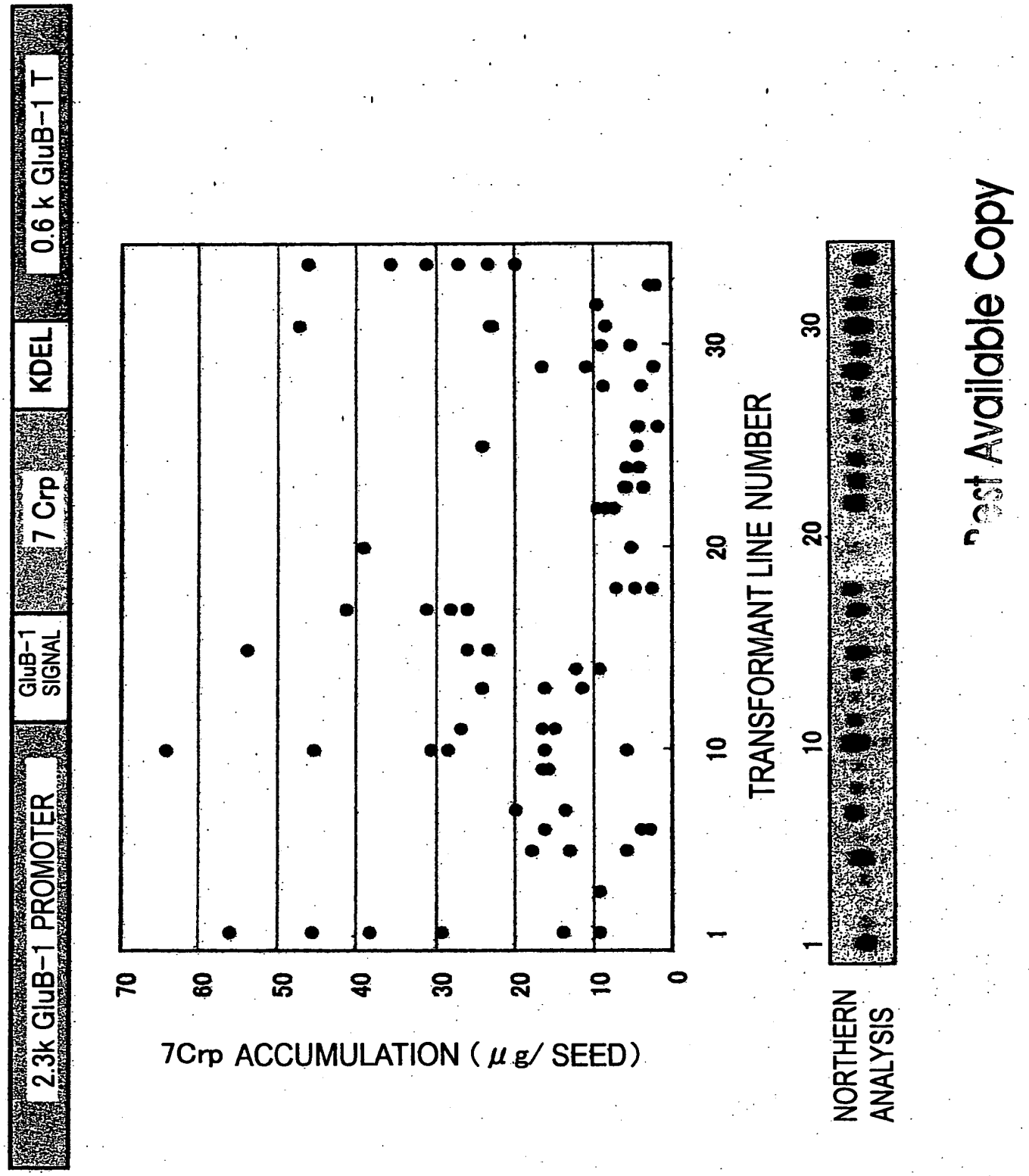

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FIG. 1

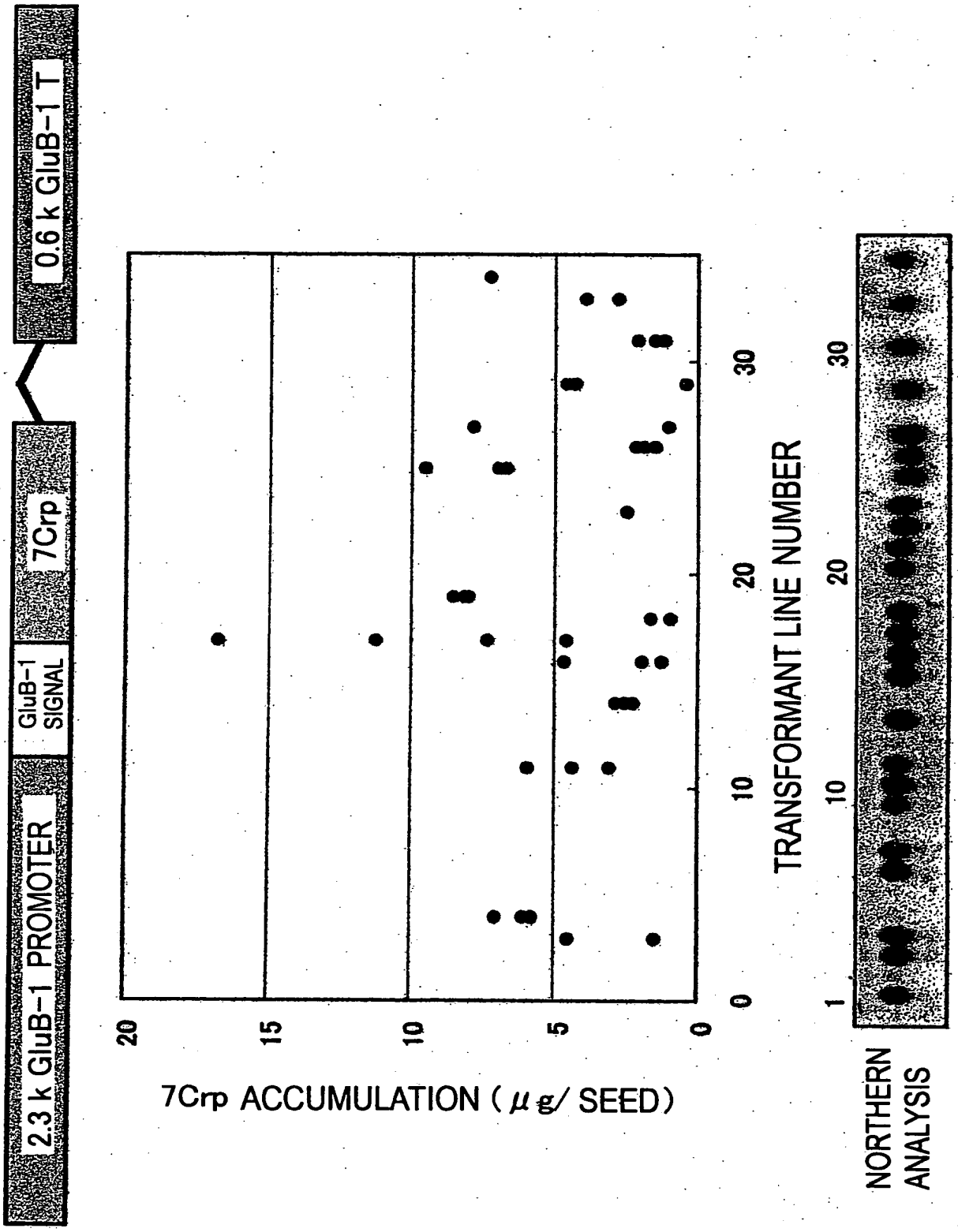

2.3 k GluB-1 PROMOTER
GluB-1 SIGNAL
7Crp
0.6 k GluB-1 T
7Crp ACCUMULATION (μg/ SEED)
20
15
10
5
0
TRANSFORMANT LINE NUMBER
1
10
20
30
NORTHERN ANALYSIS

FIG. 2

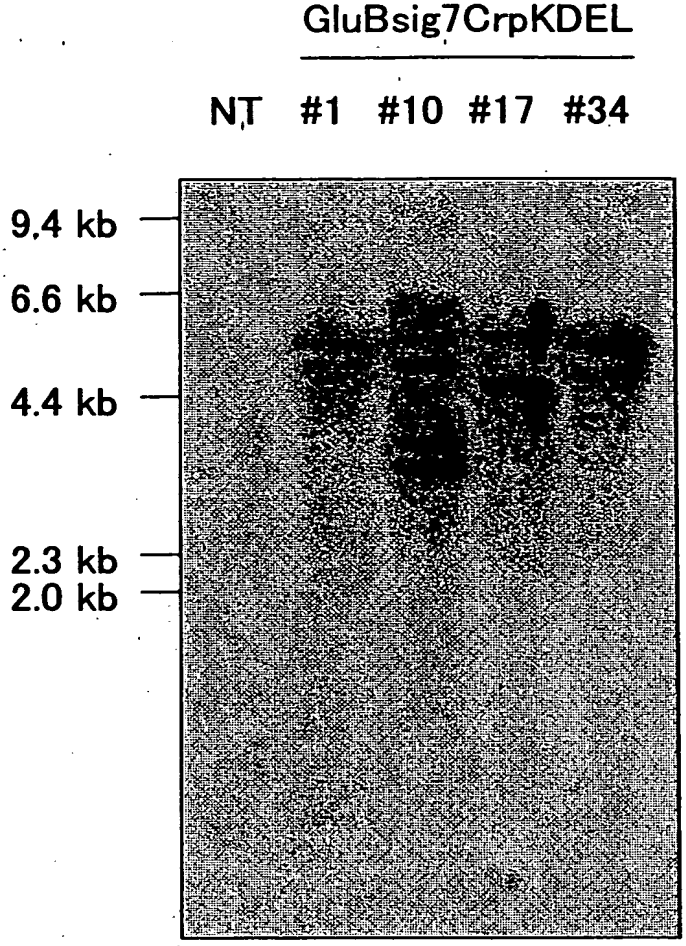
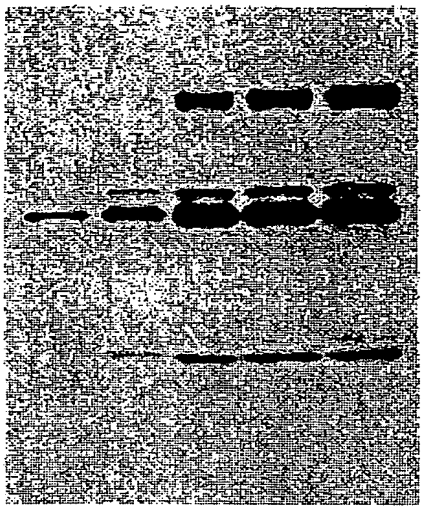


FIG. 3

ANTI-GLUTELIN ANTIBODY

5 10 15 20 25 (DAF)

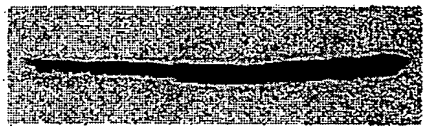


GLUTELIN PRECURSOR

GLUTELIN ACIDIC SUBUNIT

GLUTELIN BASIC SUBUNIT

ANTI-7Crp ANTIBODY



7Crp

FIG. 4

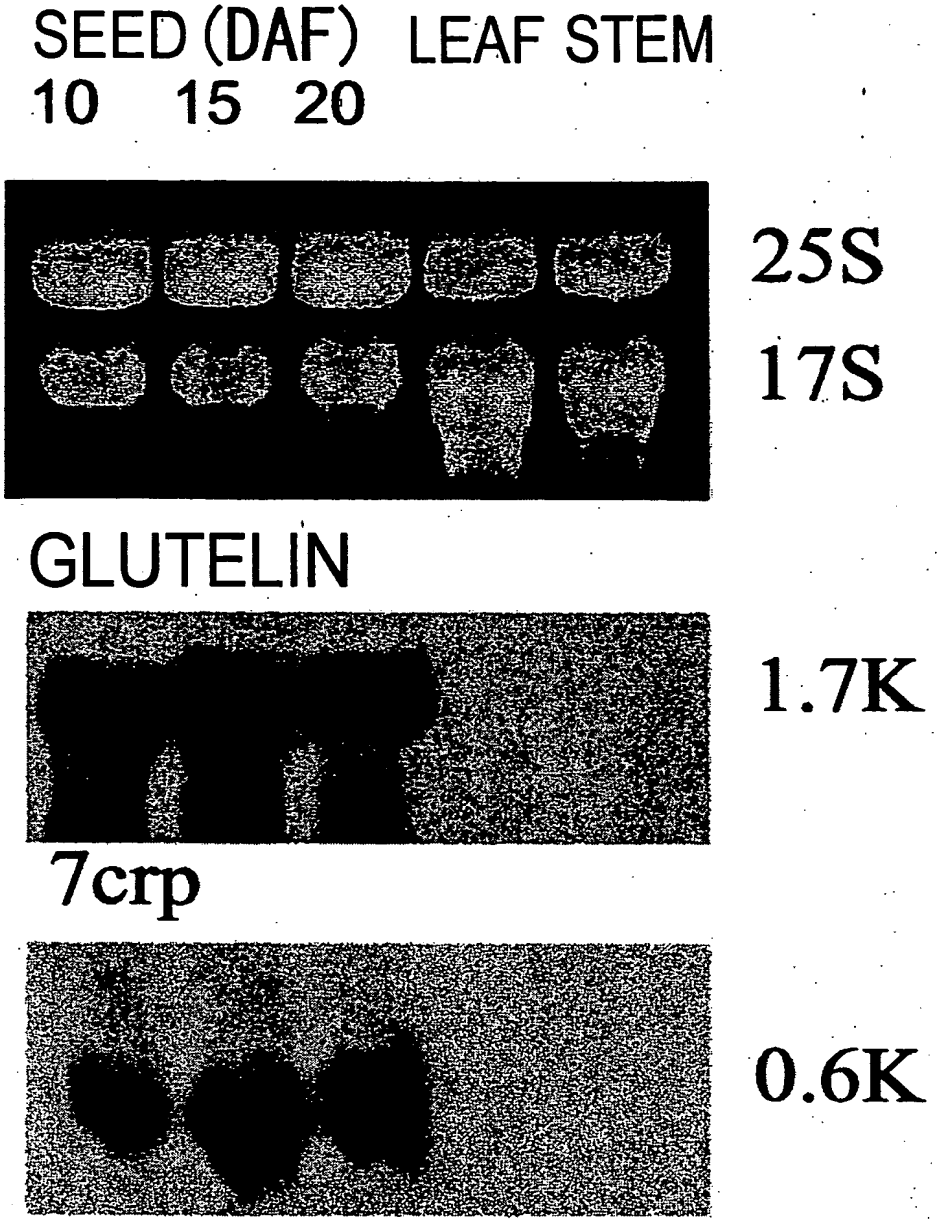


FIG. 5

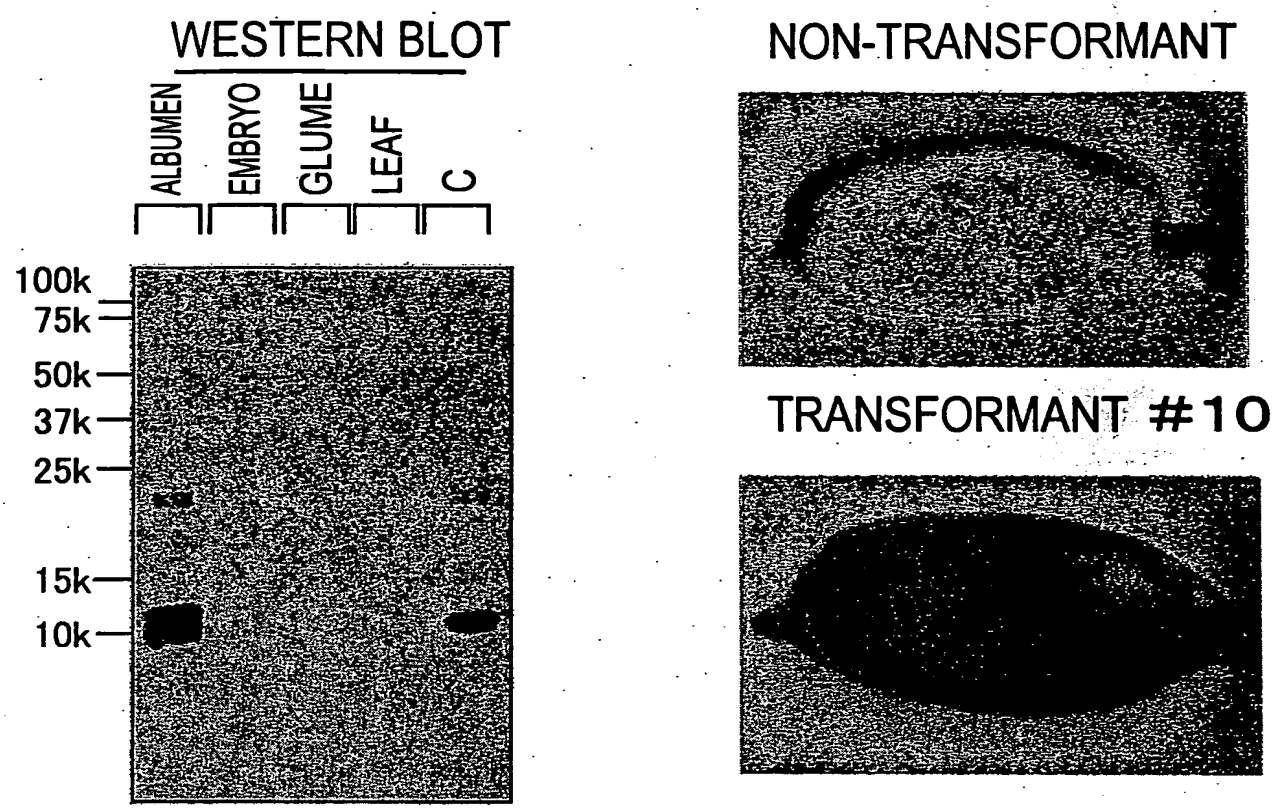

WESTERN BLOT
ALBUMEN
EMBRYO
GLUME
LEAF
C
100k
75k
50k
37k
25k
15k
10k
NON-TRANSFORMANT
TRANSFORMANT #10

FIG. 6

TRANSFORMANT SEED

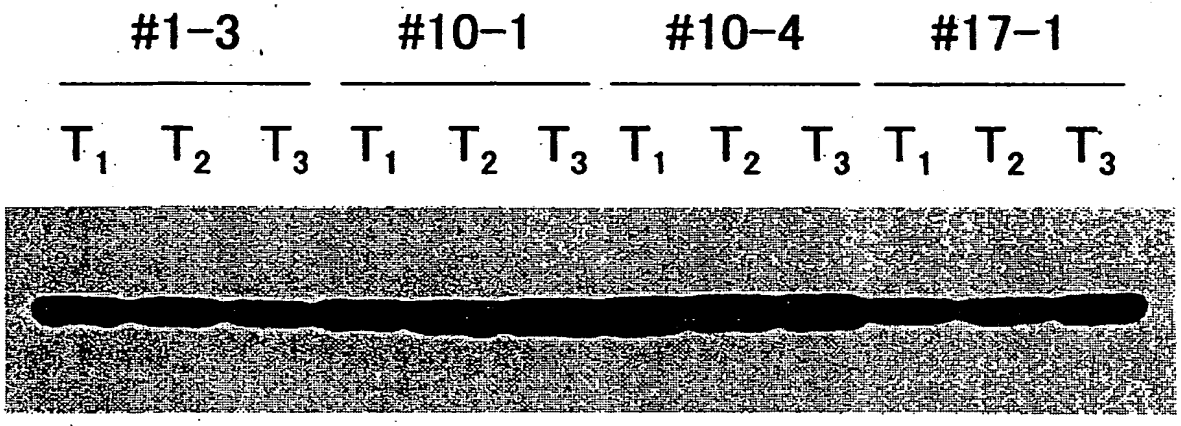


FIG. 7

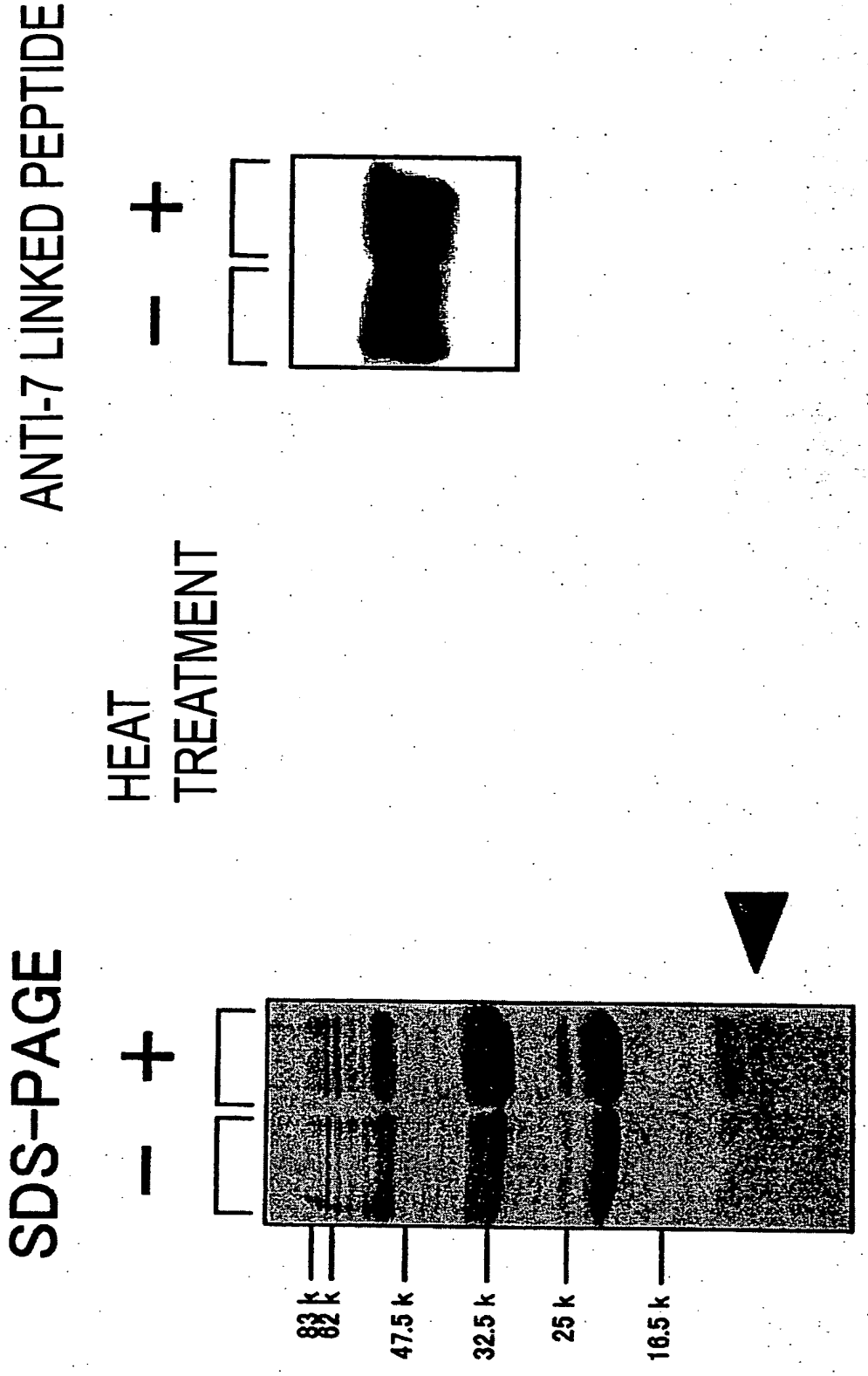

ANTI-7 LINKED PEPTIDE
- +
HEAT TREATMENT
SDS-PAGE
- +
83 k
82 k
47.5 k
32.5 k
25 k
16.5 k

FIG. 8

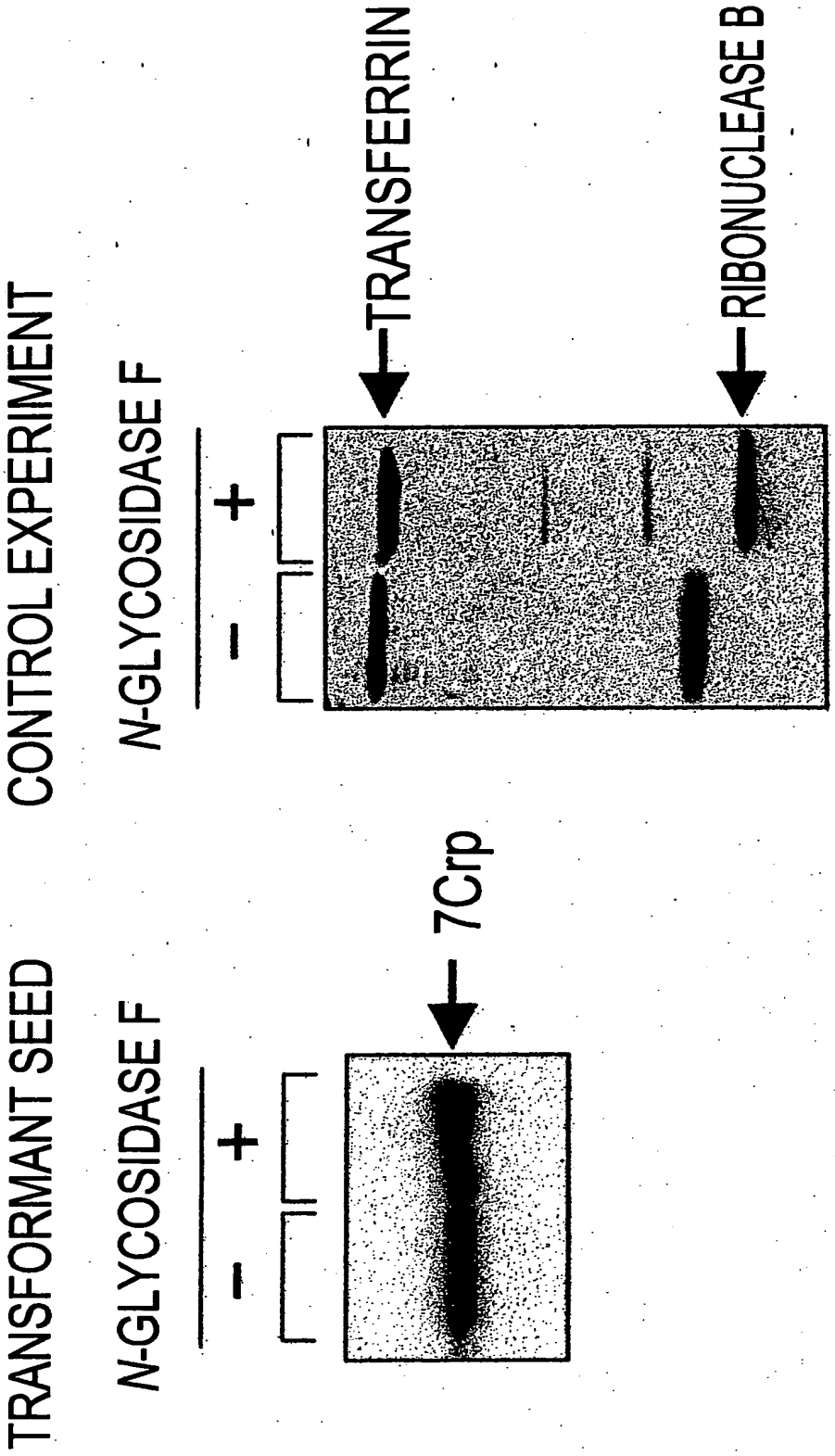

CONTROL EXPERIMENT
N-GLYCOSIDASE F
+
−
TRANSFERRIN
RIBONUCLEASE B
TRANSFORMANT SEED
N-GLYCOSIDASE F
+
−
7Crp

FIG. 9

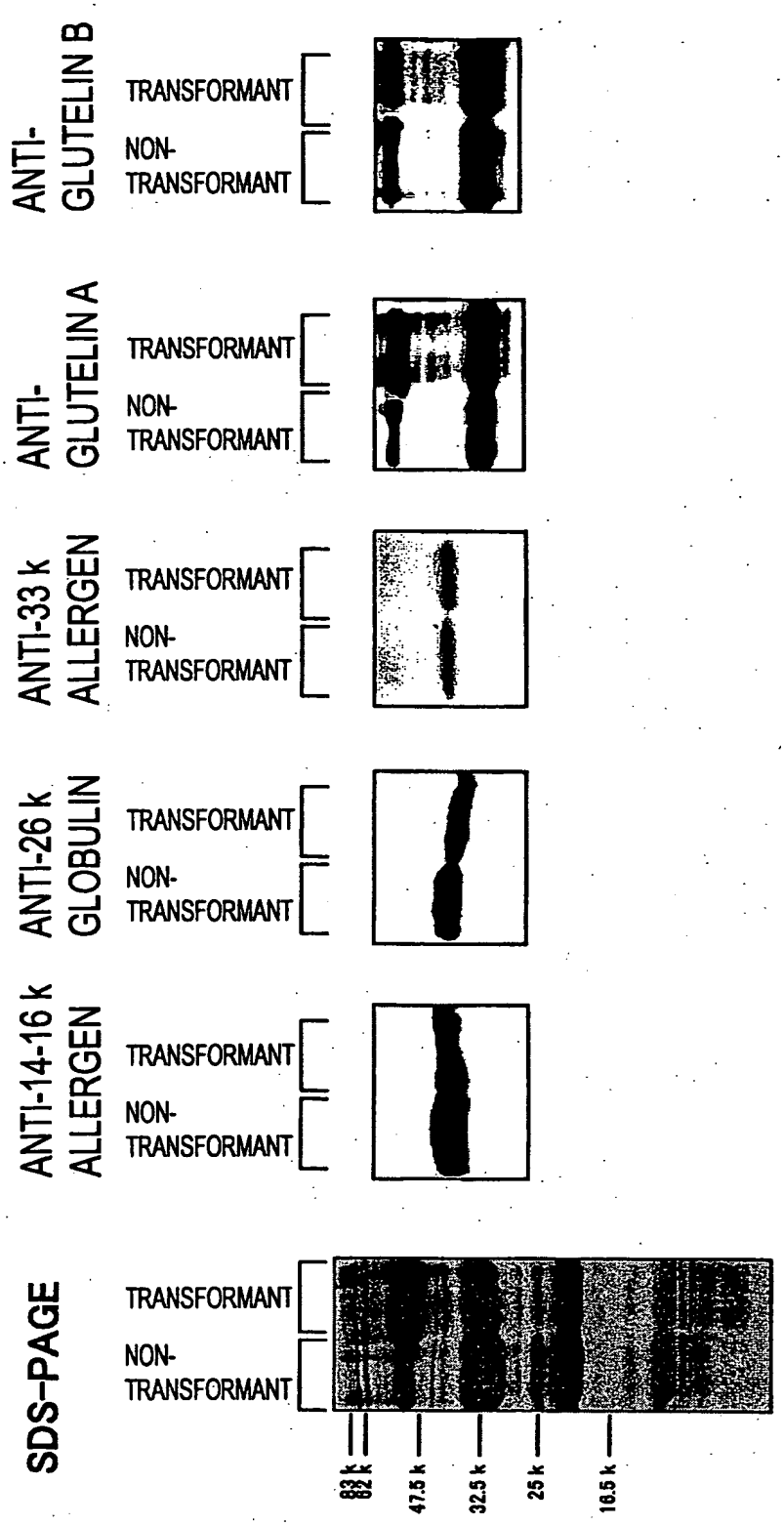

ANTI-GLUTELIN B
TRANSFORMANT
NON-TRANSFORMANT
ANTI-GLUTELIN A
TRANSFORMANT
NON-TRANSFORMANT
ANTI-33 k ALLERGEN
TRANSFORMANT
NON-TRANSFORMANT
ANTI-26 k GLOBULIN
TRANSFORMANT
NON-TRANSFORMANT
ANTI-14-16 k ALLERGEN
TRANSFORMANT
NON-TRANSFORMANT
SDS-PAGE
TRANSFORMANT
NON-TRANSFORMANT
83 k
82 k
47.5 k
32.5 k
25 k
16.5 k

FIG. 10

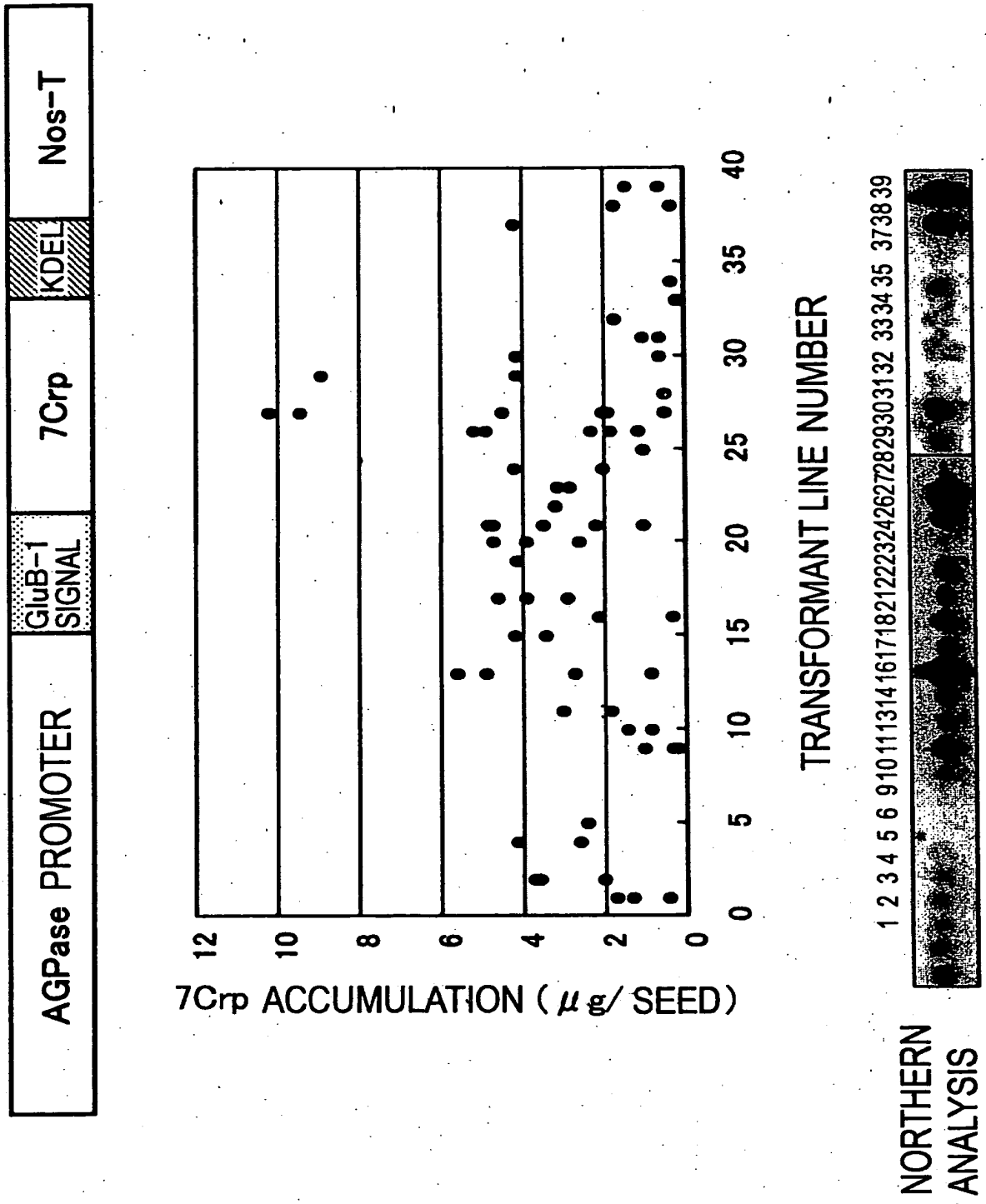

AGPase PROMOTER
GluB-1 SIGNAL
7Crp
KDEL
Nos-T
7Crp ACCUMULATION (μg/ SEED)
0
2
4
6
8
10
12
0 5 10 15 20 25 30 35 40
TRANSFORMANT LINE NUMBER
1 2 3 4 5 6 9 10 11 13 14 16 17 18 21 22 23 24 26 27 28 29 30 31 32 33 34 35 37 38 39
NORTHERN ANALYSIS

FIG. 11

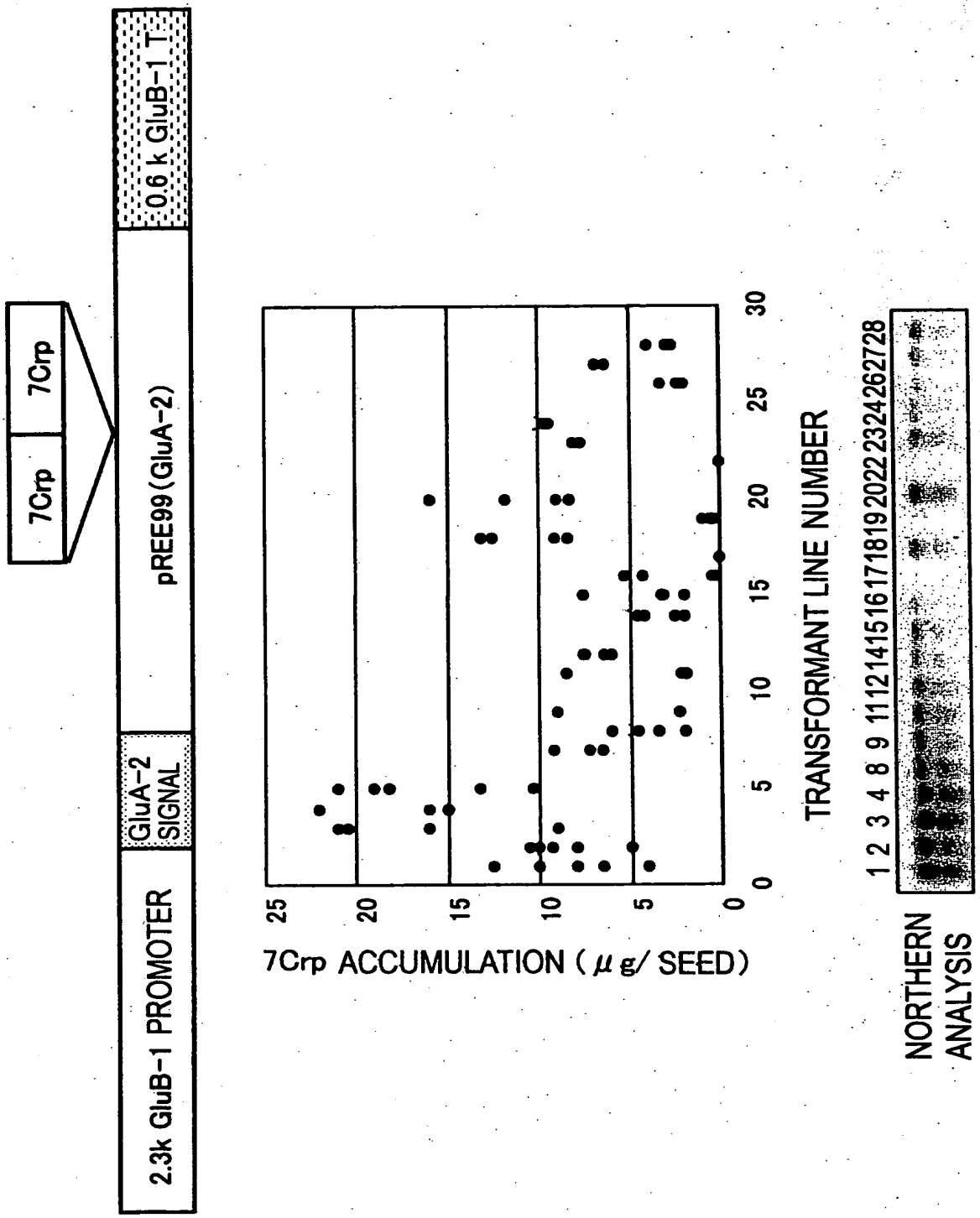

2.3k GluB-1 PROMOTER
GluA-2 SIGNAL
pREE99(GluA-2)
0.6 k GluB-1 T
7Crp
7Crp
7Crp ACCUMULATION (μg/ SEED)
0
5
10
15
20
25
30
TRANSFORMANT LINE NUMBER
1 2 3 4 8 9 11 12 14 15 16 17 18 19 20 22 23 24 26 27 28
NORTHERN ANALYSIS

FIG. 12

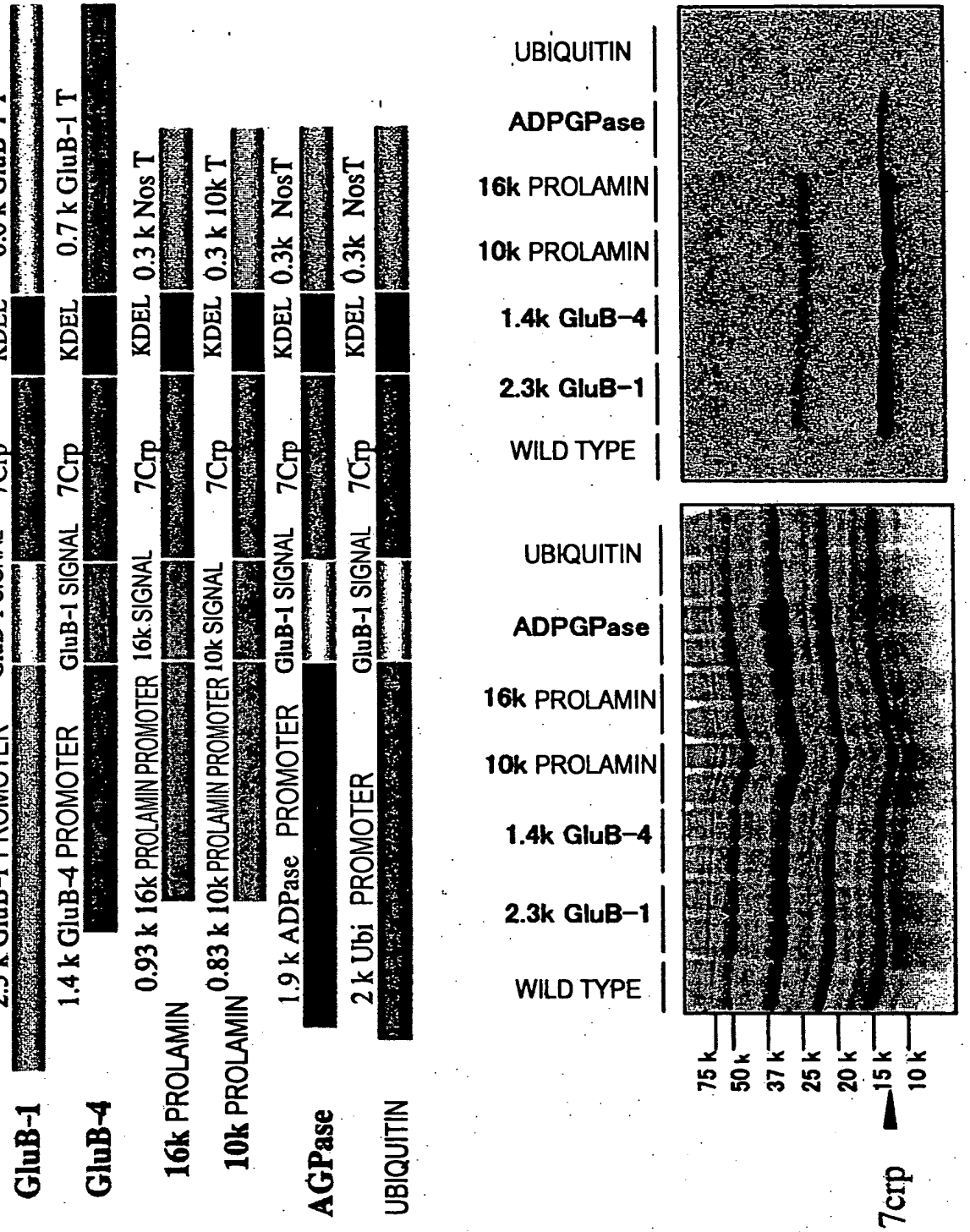

GluB-1
2.3 k GluB-1 PROMOTER
GluB-1 SIGNAL
7Crp
KDEL
0.6 k GluB-1 T
GluB-4
1.4 k GluB-4 PROMOTER
GluB-1 SIGNAL
7Crp
KDEL
0.7 k GluB-1 T
16k PROLAMIN
0.93 k 16k PROLAMIN PROMOTER
16k SIGNAL
7Crp
KDEL
0.3 k Nos T
10k PROLAMIN
0.83 k 10k PROLAMIN PROMOTER
10k SIGNAL
7Crp
KDEL
0.3 k 10k T
AGPase
1.9 k ADPase PROMOTER
GluB-1 SIGNAL
7Crp
KDEL
0.3k NosT
UBIQUITIN
2 k Ubi PROMOTER
GluB-1 SIGNAL
7Crp
KDEL
0.3k NosT
UBIQUITIN
ADPGPase
16k PROLAMIN
10k PROLAMIN
1.4k GluB-4
2.3k GluB-1
WILD TYPE
UBIQUITIN
ADPGPase
16k PROLAMIN
10k PROLAMIN
1.4k GluB-4
2.3k GluB-1
WILD TYPE
75 k
50 k
37 k
25 k
20 k
15 k
10 k
7crp

FIG. 13

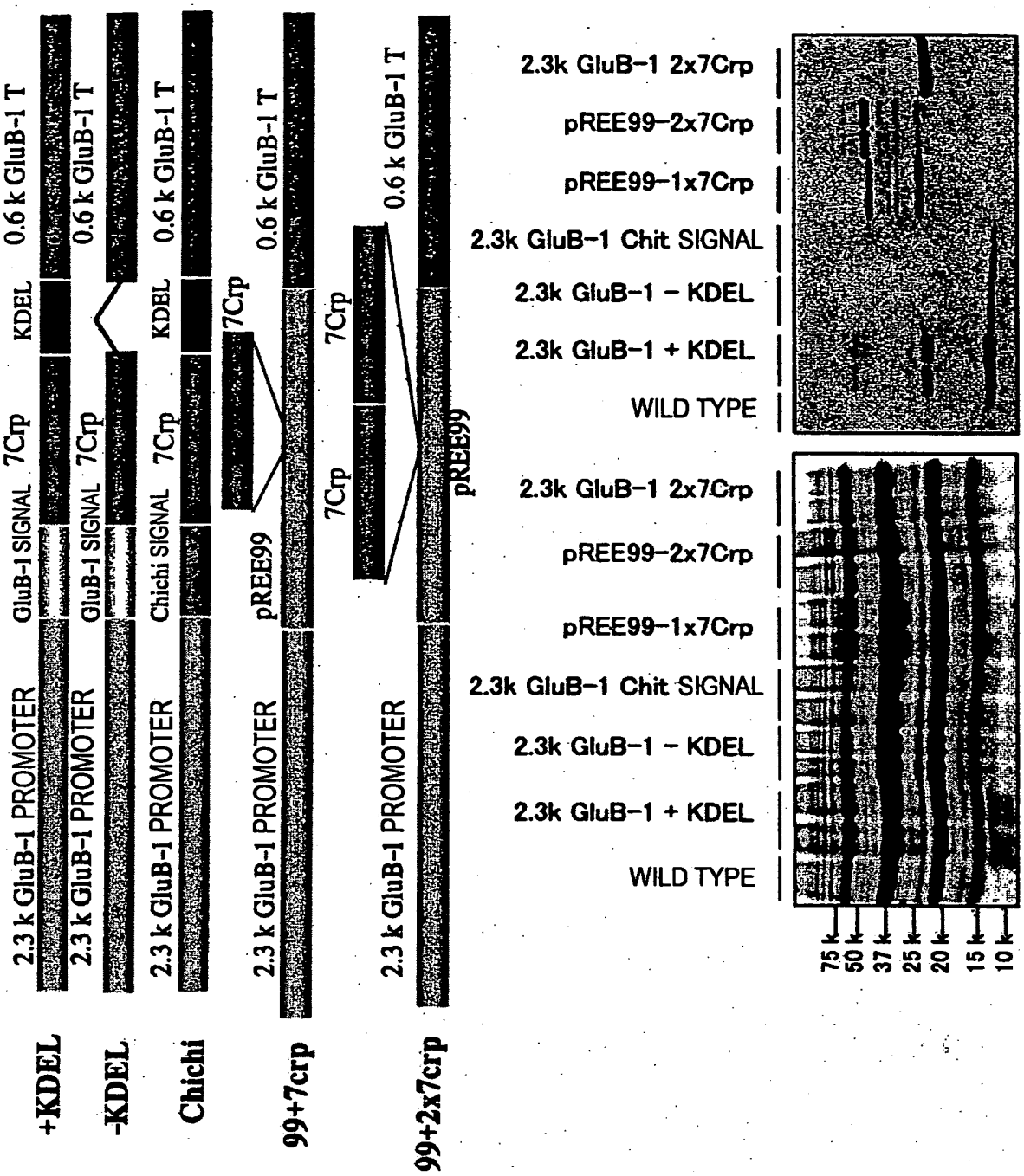

2.3 k GluB-1 PROMOTER
GluB-1 SIGNAL
7Crp
KDEL
0.6 k GluB-1 T
+KDEL
-KDEL
Chichi SIGNAL
Chichi
pREE99
99+7crp
99+2x7crp
2.3k GluB-1 2x7Crp
pREE99-2x7Crp
pREE99-1x7Crp
2.3k GluB-1 Chit SIGNAL
2.3k GluB-1 - KDEL
2.3k GluB-1 + KDEL
WILD TYPE
75 k
50 k
37 k
25 k
20 k
15 k
10 k

FIG. 14

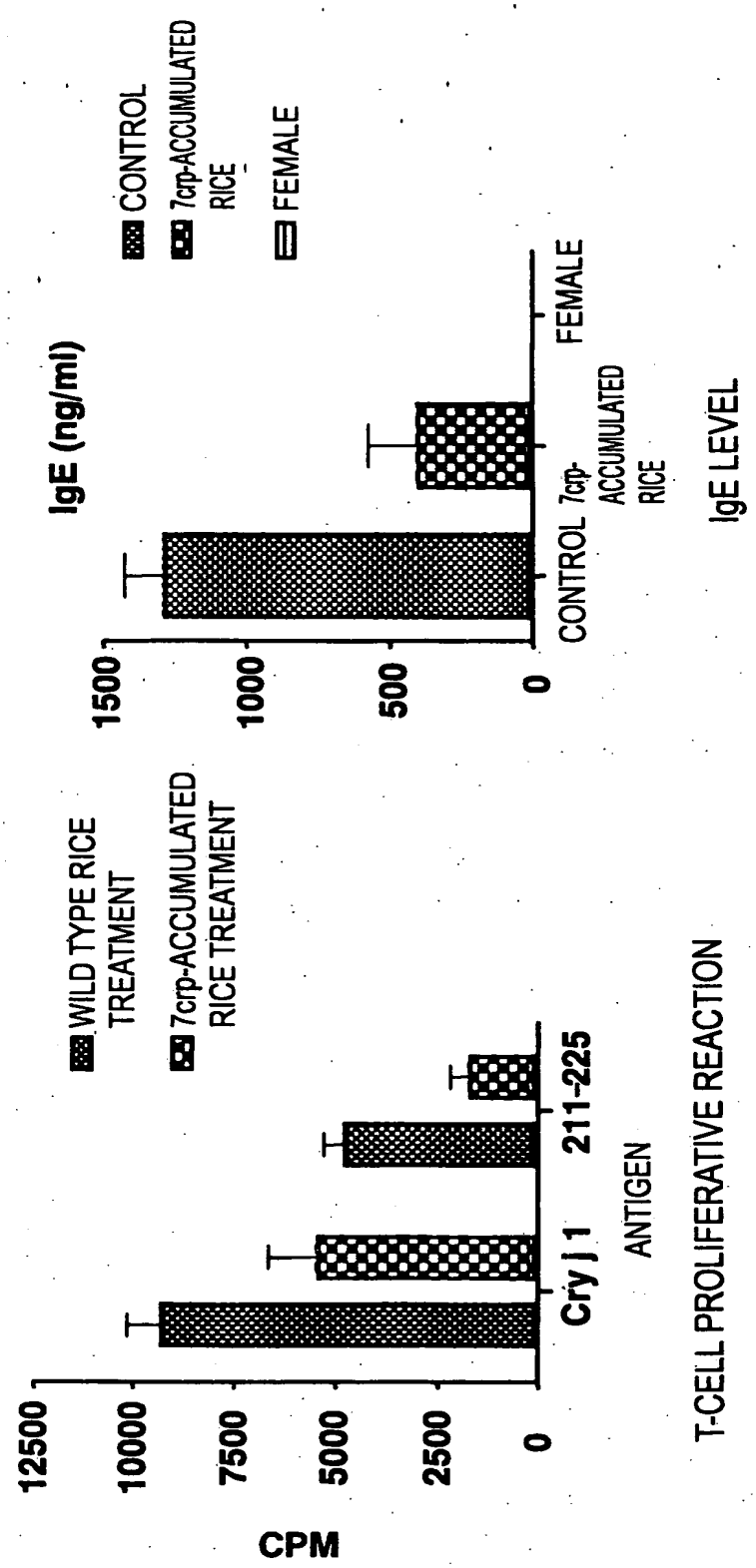

IgE (ng/ml)
CONTROL
7crp-ACCUMULATED RICE
FEMALE
1500
1000
500
0
CONTROL
7crp-ACCUMULATED RICE
FEMALE
IgE LEVEL
WILD TYPE RICE TREATMENT
7crp-ACCUMULATED RICE TREATMENT
12500
10000
7500
5000
2500
0
CPM
Cry j 1
211-225
ANTIGEN
T-CELL PROLIFERATIVE REACTION

FIG. 15

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